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APPLICATION NO. **FILING DATE** FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/591,089 06/09/00 FORD J 8064.002US0 **EXAMINER** QM32/0920 COUDERT BROTHERS SZMAL, B **ART UNIT** PAPER NUMBER 600 BEACH STREET SAN FRANCISCO CA 94109 3736 **DATE MAILED:** 09/20/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

	Application No.	Applicant(s)
Office Action Summary		, , ,
	09/591,089	FORD, JOHN C.
	Examiner	Art Unit
The MAILING DATE of this communication app	Brian Szmal	3736
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status		
1) Responsive to communication(s) filed on		
2a) This action is FINAL . 2b)⊠ Th	is action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-22</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) All b) Some * c) None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No.		
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

Claim Rej ctions - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-11 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims pertain to applying medical devices to the human body, which is non-statutory subject matter. The devices should be adapted to be used with the human body or particular body parts.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burdette et al in view of Franck et al.

Burdette et al discloses a real time brachytherapy spatial registration and visualization system and method that further discloses: an injection device having a hollow needle to deposit radioactive seeds at a site; a seed position detecting means for determining the position with reference to a coordinate system; real time seed position determining means; a dose calculating means for calculating a radiation dose; an energy transmitting means attached to the injection device; a detector at a fixed position;

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means for determining a position and orientation of the injection device; memory for storing earlier obtained patient data; a coordinate transforming means; the dose calculating means calculates a hypothetical radiation dose distribution; an injector controlling means; a display for providing a real time display of the providing a real time display of the injection needle; and updating means for updating earlier patient data. See whole document.

Burdette et al however, fails to disclose the use of a body fixed coordinate system with markers fixed to selected parts of the body; a reference point detecting means; and a referencing means for determining the position of a deposited seed.

Franck et al discloses a body mounted sensing system for stereotactic surgery, and further discloses a body fixed coordinate system with markers fixed to selected parts of the body; a reference point detecting means; and a referencing means for determining the position of a deposited seed. See whole document.

Since both Burdette et al and Franck et al disclose means of performing a stereotactic surgical procedure, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device and method of Burdette et al to include the use of a body fixed coordinate system, as per the teachings of Franck et al, in order to provide a more accurate system and method for determining the actual position of a radioactive seed to produce better results after the brachytherapy procedure. It also would have been obvious to use a needle marker for creating a position indication for the body fixed coordinate system since a needle is another

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means of providing a marker, just as anchors and threaded inserts can be used for

markers.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. The cited prior art also pertains to using coordinate systems for

placement of radioactive brachytherapy seeds.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brian Szmal whose telephone number is (703) 308-

3737, and group fax number is (703) 308-0758. The examiner can normally be reached

on Monday-Friday, with second Fridays off.

BS

September 14, 2001

´ John P. Lacyk Primary Examiner Page 4

Attachment for PTO-948 (Rev. 03/01, or earlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1 136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson. MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

Timing of Corrections

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application

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